


IN THE SPECIFICATION:


Please amend the specification as follows:

 Please replace the title with -VOLTAGE THRESHOLD DEVICE AND ENERGY STORAGE CELL FAILURE DETECTION SYSTEM FOR POWER SUPPLY--.


Please replace paragraph 11 with the following:

 A further aspect of the invention involves a failure detection system for an energy storage cell of a multiple energy storage cell pack. The system includes an electrical circuit connected to the energy storage cell, and adapted to indicate a cell active condition when a cell voltage V_{cell} is above a [threshold]threshold active voltage V_{active} , and to indicate a cell inactive condition when the cell voltage V_{cell} drops below the [threshold]threshold active voltage V_{active} .

Please replace paragraph 12 with the following:

 An additional aspect of the invention involves a failure detection system for an energy storage cell of a multiple energy storage cell pack. The system includes an electrical circuit connected to the energy storage cell. The electrical circuit includes means for indicating a cell active condition when a cell voltage V_{cell} is above a [threshold]threshold active voltage V_{active} , and means for indicating a cell inactive condition when the cell voltage V_{cell} drops below the [threshold]threshold active voltage V_{active} .

Please replace paragraph 13 with the following:

 A further aspect of the invention involves an active voltage limiting and failure detection system for an energy storage cell of a multiple energy storage cell pack. The system includes a first electrical circuit and a second electrical circuit connected to the energy storage cell. The first electrical circuit is powered by the energy storage cell and is adapted to draw a significant amount of power from the energy storage cell when a cell voltage V_{cell} reaches a maximum voltage V_{max} to reduce the cell voltage V_{cell} , to stop drawing the significant amount of power to reduce the cell voltage V_{cell} when the cell voltage V_{cell} reaches a minimum voltage V_{min} , and to draw no power when the cell voltage V_{cell} reaches a shutdown voltage $V_{shutdown}$. The second electrical circuit is adapted to indicate a cell active condition when the cell voltage V_{cell} is above a [threshold]threshold active voltage V_{active} , and to indicate a cell inactive condition when the cell voltage V_{cell} drops below the [threshold]threshold active voltage V_{active} .

Please replace paragraph 14 with the following:

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A yet further aspect of the invention involves an active voltage limiting and failure detection system for an energy storage cell of a multiple energy storage cell pack. The system includes a first electrical circuit and a second electrical circuit connected to the energy storage cell. The first electrical circuit is powered by the energy storage cell and includes means for drawing a significant amount of power from the energy storage cell when a cell voltage V_{cell} reaches a maximum voltage V_{max} to reduce the cell voltage V_{cell} , means for stopping the drawing of the significant amount of power to reduce the cell voltage V_{cell} when the cell voltage V_{cell} reaches a minimum voltage V_{min} , and means for drawing no power when the cell voltage V_{cell} reaches a shutdown voltage $V_{shutdown}$. The second electrical circuit includes means for indicating a cell active condition when the cell voltage V_{cell} is above a [threshold]threshold active voltage V_{active} , and means for indicating a cell inactive condition when the cell voltage V_{cell} drops below the [threshold]threshold active voltage V_{active} .

Please replace paragraph 30 with the following:

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The voltage threshold device 90 (e.g., zener diode) sets a minimum [threshold]threshold active voltage V_{active} for the cell voltage V_{cell} to overcome before the second LED 81 can be "fired". For a V_{cell} value below the minimum [threshold]threshold active voltage V_{active} , the LED 81 will not "fire", the corresponding LED 95 in the display array 97 will not light and the cell 15 is defined to be in a "failed" or inactive condition.

Please replace paragraph 32 with the following:

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If the cell 15 is "good" or active, an output enable signal turns on the LED driver 110 and the LED 95 is illuminated. The voltage of the cell 15 turns on the output line 92 in response to an interrogation, which may be run continuously. If the cell 15 has failed, the output line 92 will not go high and cause the LED 95 to light, thus, a dark LED 95 indicates the failed cell 15. The voltage threshold device 90 in series with the output line 92 can be chosen to set the [threshold]threshold active voltage V_{active} of the cell 15.

Please replace paragraph 37 abstract with the following:

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An active voltage limiting and failure detection system for an energy storage cell of a multiple energy storage cell pack includes a first electrical circuit and a second electrical circuit connected to the energy storage cell. The first electrical circuit is powered by the energy storage cell and includes means for drawing a significant amount of power from the energy storage cell when a cell voltage V_{cell} reaches a maximum voltage V_{max} to reduce the cell voltage V_{cell} , means for stopping the drawing of the significant amount of power to reduce the cell voltage V_{cell} when the cell voltage V_{cell} reaches a minimum voltage V_{min} , and means for drawing no power when the cell voltage V_{cell} reaches a shutdown voltage $V_{shutdown}$. The second electrical circuit includes means for indicating a cell active condition when the cell voltage V_{cell} is above a [threshold]threshold active voltage V_{active} , and means for indicating a cell inactive condition when the cell voltage V_{cell} drops below the [threshold]threshold active voltage V_{active} .